

Appln. No.:09/624,946
 Amendment Dated September 3, 2003
 Response to Office Action of

UPN0015-100

Amendments to the Claims:

Claims 1-4 (Cancelled)

5. (Currently Amended) A system for quantifying molecules expressing a selected epitope comprising:

(a) a selected surface on which a molecule expressing a selected epitope is or can be immobilized;

(b) an epitope detector consisting of a single chain Fv for the selected epitope or a constrained epitope specific CDR either of which have been modified to allow for attachment of oligonucleotides; and

(c) an oligonucleotide attached to the single chain Fv or the constrained epitope specific CDR, said oligonucleotide comprising an RNA promoter linked to a nucleotide sequence that is a template for an RNA transcript, wherein RNA which is transcribed and amplified by an RNA polymerase reaction, and wherein amplified RNA is quantified, by an aRNA technique.

6. (Original) The system of claim 5 further comprising an epitope anchor for immobilizing the molecule to the selected surface, said epitope anchor being specific for the selected epitope.

7. (Currently Amended) The system of claim 5 wherein the epitope detector comprises is a universal epitope, the oligonucleotide is linked to a universal epitope detector, and the oligonucleotide is attached to the epitope detector by binding of the universal epitope detector to the universal detector which detects a general epitope.

8. (Previously Amended) A kit for quantifying molecules expressing a selected epitope comprising an epitope detector consisting of a single chain Fv for a selected epitope attached to an oligonucleotide or a constrained epitope specific CDR attached to an oligonucleotide.

9. (Original) The kit of claim 8 further comprising an epitope anchor specific for the selected epitope.

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10. (Original) The kit of claim 8 wherein the single chain Fv or the constrained epitope specific CDR have been modified for attachment of oligonucleotides.

11. (Currently Amended) The kit of claim 8 wherein the epitope detector comprises a universal epitope which binds to a universal epitope. ~~detector which detects a general epitope.~~

12. (Newly Presented) The kit of claim 8 further comprising a selected support.

13. (Newly Presented) The kit claim 12 where the selected support is a chip or a well of a plate.

14. (Newly Presented) The kit of claim 8 wherein the oligonucleotide is a double stranded cDNA molecule.

15. (Newly Presented) The kit of claim 8 wherein the oligonucleotide comprises an RNA promoter selected from the group consisting of: a T7 RNA promoter, a T3 RNA promoter and an SP6 RNA promoter.

16. (Newly Presented) The system of claim 5 wherein the selected support is a chip or a well of a plate.

17. (Newly Presented) The system of claim 5 wherein the oligonucleotide is a double stranded cDNA molecule.

18. (Newly Presented) The system of claim 5 wherein the oligonucleotide comprises an RNA promoter selected from the group consisting of: a T7 RNA promoter, a T3 RNA promoter and an SP6 RNA promoter.